



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

To,

The Managing Partner  
GALAXY BUILDERS

Leo Paradise, P T Usha Road, Calicut, Kerala,,Kozhikode,Kerala-673032

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/KL/MIS/232527/2021 dated 05 Oct 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC21A038KL110541
2. File No.	21-91/2021-IA-III
3. Project Type	New
4. Category	A
5. Project/Activity including Schedule No.	8(a) Building and Construction projects
6. Name of Project	Proposed Professional Office cum Residential Building Project 'Galaxy Atmosphere' at Calicut Corporation
7. Name of Company/Organization	GALAXY BUILDERS
8. Location of Project	Kerala
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 01/12/2021

(e-signed)  
Dharmendra Gupta  
Scientist F  
IA - (INFRA-2 sector)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*



**F. No. 21-91/2021-IA-III**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi - 110003

November 28<sup>th</sup>, 2021

To,

**Shri P M Kunhamad Koya, Managing Partner  
M/s Galaxy Builders**

Leo Paradise, P.T. Usha Road,  
Kozhikode - 673032, Kerala  
E. mail: zinekhar@galaxy-builders.com

**Subject: Environmental Clearance for Proposed Professional Office cum Residential Building Project 'Galaxy Atmosphere' with built up area of 23450.22 sqm. at Calicut Corporation, Kasaba Village, Kozhikode Taluk & District, Kerala by M/s Galaxy Builders – regarding.**

Sir,

This has reference to your Application/Proposal No. IA/KL/MIS/232527/2021; received on 05<sup>th</sup> October, 2021 through Parivesh Portal for Environmental Clearance (EC) for 'Proposed Professional Office cum Residential Building Project 'Galaxy Atmosphere' with built up area of 23450.22 sqm. at Calicut Corporation, Kasaba Village, Kozhikode Taluk & District, Kerala' by M/s Galaxy Builders.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006; as amended and notified under the Environment (Protection) Act, 1986 (29 of 1986), the above-mentioned project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to non-existence of SEIAA in Kerala, the proposal required appraisal at Central level by sectoral EAC.

3. Accordingly, the abovementioned proposal for Environmental Clearance has been examined by the Expert Appraisal Committee (Infra-2) in its 75<sup>th</sup> meeting held during 27-28<sup>th</sup> October, 2021.

4. The details of the project, as per the application and documents submitted by the project proponent, and also as informed during the above-mentioned meeting of EAC (Infra-2) are as under:

- i. The project is located at Block-2, Re-survey No. 6-2-15,16, Calicut Corporation, Kasaba Village, Kozhikode Taluk & District, Kerala with coordinates 11°15'57.93" N Latitude and 75°46'41.80" E Longitude.
- ii. The project is new.



- iii. The total plot area is 4,740.90 sqm., FSI area is 18,922.97 sqm. and total construction (Built-up) area of 23,450.22 sqm. The project will comprise of one building of B+G+50 floors. Total 83 units (82 dwelling units and 1 study unit) will be developed. Maximum height of the building is 154.64 m (as per Kerala Municipal Building Rules (KMBR)) and 160.65 m (total height from ground level, including the machine room and water tank). The details of building are as follows:

Item	Description																																						
Plot area	4740.90 sqm																																						
Total green area	1262.98 sqm																																						
No. of units	83 units (82 dwelling units and 1 study unit) 82 dwelling units includes: <ul style="list-style-type: none"> <li>• 2 BHK- 16 Units</li> <li>• 3 BHK – 26 Units</li> <li>• 4 BHK - 40 Units</li> </ul>																																						
Total occupancy estimated	474																																						
Details of the building	<table> <tr> <th>Floor Description</th><th>Area (sqm.)</th></tr> <tr> <td>Basement Floor</td><td>3163.50</td></tr> <tr> <td>Ground Floor</td><td>650.40</td></tr> <tr> <td>1<sup>st</sup> floor</td><td>493.57</td></tr> <tr> <td>2<sup>nd</sup> floor</td><td>440.00</td></tr> <tr> <td>3<sup>rd</sup> floor to 10<sup>th</sup> floor (Typical)</td><td>3469.60 (433.70 x 8)</td></tr> <tr> <td>11<sup>th</sup> floor to 19<sup>th</sup> floor (Typical)</td><td>4021.20 (446.30 x 9)</td></tr> <tr> <td>20<sup>th</sup> Floor</td><td>445.31</td></tr> <tr> <td>21<sup>st</sup> floor to 28<sup>th</sup> floor (Typical)</td><td>3574.40 (446.80 x 8)</td></tr> <tr> <td>29<sup>th</sup> Floor</td><td>437.11</td></tr> <tr> <td>30<sup>th</sup> Floor</td><td>336.65</td></tr> <tr> <td>31<sup>st</sup> Floor</td><td>345.44</td></tr> <tr> <td>32<sup>nd</sup> floor to 39<sup>th</sup> floor (Typical)</td><td>2456.96 (307.12 x 8)</td></tr> <tr> <td>40<sup>th</sup> Floor</td><td>327.35</td></tr> <tr> <td>41<sup>st</sup> floor to 49<sup>th</sup> floor (Typical)</td><td>2764.08 (307.12 x 9)</td></tr> <tr> <td>50<sup>th</sup> Floor</td><td>327.35</td></tr> <tr> <td>Terrace Floor</td><td>60.91</td></tr> <tr> <td>Machine Room</td><td>136.39</td></tr> <tr> <td>Total Built-up Area</td><td>23450.22</td></tr> </table>	Floor Description	Area (sqm.)	Basement Floor	3163.50	Ground Floor	650.40	1 <sup>st</sup> floor	493.57	2 <sup>nd</sup> floor	440.00	3 <sup>rd</sup> floor to 10 <sup>th</sup> floor (Typical)	3469.60 (433.70 x 8)	11 <sup>th</sup> floor to 19 <sup>th</sup> floor (Typical)	4021.20 (446.30 x 9)	20 <sup>th</sup> Floor	445.31	21 <sup>st</sup> floor to 28 <sup>th</sup> floor (Typical)	3574.40 (446.80 x 8)	29 <sup>th</sup> Floor	437.11	30 <sup>th</sup> Floor	336.65	31 <sup>st</sup> Floor	345.44	32 <sup>nd</sup> floor to 39 <sup>th</sup> floor (Typical)	2456.96 (307.12 x 8)	40 <sup>th</sup> Floor	327.35	41 <sup>st</sup> floor to 49 <sup>th</sup> floor (Typical)	2764.08 (307.12 x 9)	50 <sup>th</sup> Floor	327.35	Terrace Floor	60.91	Machine Room	136.39	Total Built-up Area	23450.22
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- iv. During construction phase, total water requirement is expected to be 11.8 KLD (including water for drinking and flushing for construction workers and for construction activities) which will be met by drinking water cans and two existing open wells at the site (for flushing and construction activities). During the construction phase, portable STP



will be provided for disposal of wastewater. Temporary sanitary toilets will be provided during the construction period.

- v. During operational phase, total water requirement of the project is expected to be 98 KLD during non-monsoon season and 92 KLD during monsoon season and the same will be met by 56 KLD freshwater from KWA supply, two existing open wells and harvested rainwater and 42 KLD (non-monsoon season) & 36 KLD (monsoon season) recycled water. Wastewater generated (70 KLD) will be treated in a STP (MBBR technology followed by tertiary treatment including ultra-filtration) of total 75 KLD capacity. 63 KLD of treated wastewater will be generated which will be recycled and reused (23 KLD for flushing, 6 KLD for gardening and 13 KLD for car washing). About 21 KLD (non-monsoon season) and 27 KLD (monsoon season) will be disposed into the proposed soak pit.
- vi. About 0.142 TPD solid wastes will be generated in the project. The biodegradable waste (0.057 TPD) will be managed through two bio bins of capacity 50 kg each and the non-biodegradable waste generated (0.085 TPD) will be handed over to authorized local vendor.
- vii. The total power requirement during construction phase is 60 kW and will be met from Temporary 3 phase connection from Kerala State Electricity Board (KSEB). Total power requirement during operation phase is 1200 kVA and will be met from KSEB and Solar Panels. A DG Set of 625 kVA is proposed as a source of backup power.
- viii. Rooftop rainwater of buildings will be collected in a RWH tank of total 200 KL capacity for harvesting after filtration.
- ix. Parking facility for 147 nos of four wheelers and 422.14 sqm. area for two wheelers is proposed to be provided against the requirement of 128 nos and 415.80 sqm. area respectively (according to local norms).
- x. Proposed energy saving measures would save about 6.25 % of power by the usage of solar panels of capacity 18 kW.
- xi. The project is not located in Critically Polluted area.
- xii. The project is not located within 10 km of Eco Sensitive Zone. NBWL Clearance is not required.
- xiii. Forest Clearance is not required.
- xiv. No court case is pending against the project.
- xv. NOC for Height Clearance is required from Airport Authority for which application has been submitted.
- xvi. An existing single storeyed building (back side of the plot) of built up area 125.40 sqm. is proposed to be used as office room during construction phase and will be demolished after the construction of the proposed professional office cum residential building. All the recoverable building materials will be recovered and reused and the remaining will be used in the project site for filling and levelling the site.
- xvii. The capital cost and recurring cost allocated for EMP is ₹1.93 Crore as Capital Cost and ₹11.26 Lakh as Recurring Cost.
- xviii. A total of 23 trees along with weeds and colonizers are present in the site, out of which, 10 trees along with weeds and colonizers will be cleared for the construction and remaining 13 trees will be retained within the site. The tree cutting will be compensated by planting more native species in green belt. Total green area of 1262.98 sqm. is allocated for green belt with at-least 46 trees in the proposed project.



- xix. Expected timeline for completion of the project- 48 months (4 years)
- xx. Investment/Cost of the project is ₹80.0 Crore.
- xxi. Employment potential: 100 workers during construction phase and 10 workers (service personnel) during operation phase.
- xxii. Benefits of the project - Professional office space cum luxury and premium 2 BHK, 3 BHK and 4 BHK apartments; Improves and advances the location value; Create employment opportunities in both construction as well as operation phase; Improves the standard of living.

5. The EAC (Infra 2), based on information and clarifications provided by the project proponent and detailed discussions held on the issues, has recommended granting environment clearance to the project. The aforesaid recommendation of EAC (Infra-2) is subject to certain specific conditions, as stipulated during its 75<sup>th</sup> meeting held during 27-28<sup>th</sup> October, 2021.

6. Based on recommendations of EAC (Infra-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project for 'Proposed Professional Office cum Residential Building Project 'Galaxy Atmosphere' with built up area of 23450.22 sqm. at Calicut Corporation, Kasaba Village, Kozhikode Taluk & District, Kerala' by M/s Galaxy Builders, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the following specific and standard conditions:

**A. Specific Conditions:**

- i. Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA). Fresh water requirement shall not exceed 56 KLD during operational phase.
- ii. As proposed, wastewater shall be treated in an onsite STP of total 75 KLD capacity. Atleast 42 KLD of treated water from the STP shall be recycled and re-used for flushing (23 KLD), gardening (6 KLD) and for car washing (13 KLD). PP shall explore options to utilise the excess treated water of about 21 KLD.
- iii. The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
- iv. Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 1262.98 sqm. As proposed, at least 46 trees shall be maintained during the operation phase of the project. The landscape planning should include plantation of native species. A minimum of 01 tree for every 80 sqm. of land should be planted and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species (cut) to species (planted). The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.



- v. No tree can be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- vi. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e., planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- vii. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, RWH tank of total 200 KL capacity shall be provided by PP for rain water harvesting after filtration.
- viii. The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be utilized through bio-bin system to be installed within the site. Inert waste shall be disposed off as per norms at authorized site. The recyclable waste shall be sold to authorized vendors/recyclers. Construction & Demolition (C&D) waste shall be segregated and managed as per C&D Waste Management Rules, 2016.
- ix. The PP shall provide electric charging points in parking areas for e-vehicles as committed.
- x. As committed, solar energy shall be utilized for water heating and lighting driveways and walkways and solar panels of atleast 18 kW shall be installed.
- xi. The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals/clearances under any other Acts/Regulations or Statutes as applicable to the project.

## **B. Standard Conditions:**

### **I. Statutory compliance:**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire-fighting equipment etc. as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.



- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

**II. Air quality monitoring and preservation:**

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub>) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.

- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation:**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- iv. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- v. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vi. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- vii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.



- viii. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- ix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- x. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xi. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xii. All recharge should be limited to shallow aquifer.
- xiii. No ground water shall be used during construction phase of the project.
- xiv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvi. Sewage shall be treated in the STP with tertiary treatment. As proposed, no treated water shall be disposed in to municipal drain.
- xvii. No sewage or untreated effluent water would be discharged through storm water drains.
- xviii. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xix. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xx. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention:**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental



pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures:**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

**VI. Waste Management:**

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg/person/day must be installed.



- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27<sup>th</sup> August, 2003 and 25<sup>th</sup> January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

#### **VII. Green Cover:**

- i. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

#### **VIII. Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./

competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues:**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Miscellaneous:**


- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.



- vi. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- vii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- ix. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- x. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xi. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.
- xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- xvii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- xviii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

7. The Environmental Clearance is being granted to M/s Galaxy Builders for 'Proposed Professional Office cum Residential Building Project 'Galaxy Atmosphere' with built up area of 23450.22 sqm. at Calicut Corporation, Kasaba Village, Kozhikode Taluk & District, Kerala'.

8. This issues with the approval of the Competent Authority.

  
(Dr. Dharmendra Kumar Gupta)  
Director (S)

**Copy to:**

1. Principal Secretary, Government of Kerala, Department of Environment & Climate Change (DoECC), Devikripa, Pallimukku Pertah P.O., Thiruvananthapuram- 695024, Kerala
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office (Southern Zone), Ministry of Environment, Forest and Climate Change, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bengaluru - 560034, Karnataka
3. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. Member Secretary, Kerala State Pollution Control Board, Head Office, Pattom. P. O., Thiruvananthapuram-695004, Kerala
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.

  
(Dr. Dharmendra Kumar Gupta)  
Director (S)